Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	(PCT Article 36 and	Rule 10)				
pplicant's or agent's file reference	FOR FURTHER ACTION	SeeNotificati Examination	onofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)			
JST-79-PCT International application No. PCT/JP02/08114	International filing date (day/month) 08 August 2002 (08.08.0		Priority date (day/month/year) 01 February 2002 (01.02.02)			
international Patent Classification (IPC) or nat H01S 3/05	tional classification and IPC					
Applicant JAPAN SCIENCE AND TECHNOLOGY CORPORATION						
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of3 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of1 sheets. 3. This report contains indications relating to the following items: I						
Date of submission of the demand		Date of completion of this report				
28 January 2003 (2	28.01.03)	25 August 2003 (25.08.2003)				
Name and mailing address of the IPEA	√JP	Authorized officer				
Facsimile No.		Telephone N	0.			

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP02/08114

I.	Basis	of the r	report						
1.	With		to the elements of the international application:*						
		the int	ternational application as originally filed						
	\boxtimes	the de	escription:						
	_	pages	-	, as originally filed					
		pages		, filed with the demand					
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		pages							
		the sequ	tence listing part of the description:						
¥	٠	pages	•	inclu filed					
		pages							
		pages							
3.	These	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which is international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international reliminary examination was carried out on the basis of the sequence listing:							
	H		ined in the international application in written form.	,					
	H		ogether with the international application in computer readable form.						
	H		hed subsequently to this Authority in written form.						
	H		hed subsequently to this Authority in computer readable form.						
		interna	statement that the subsequently furnished written sequence listing does not ational application as filed has been furnished.						
		been fu	tatement that the information recorded in computer readable form is identical furnished.	to the written sequence listing has					
4.	\boxtimes	The an	mendments have resulted in the cancellation of:						
			the description, pages						
			the claims, Nos. 2-3						
			the drawings, sheets/fig	1					
5.		This rep	port has been established as if (some of) the amendments had not been made, single the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ce they have been considered to go					
å	Replac in this and 70	icement s is report (0.17).	sheets which have been furnished to the receiving Office in response to an invitati t as "originally filed" and are not annexed to this report since they do not tent sheet containing such amendments must be referred to under item 1 and annexe	t contain amendments (Rule 70.16					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 02/08114

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	1	YES		
		Claims		NO		
	Inventive step (IS)	Claims		YES		
		Claims	1 .	NO		
	Industrial applicability (IA)	Claims	1	YES		
		Claims	. 	NO		

2. Citations and explanations

Claim 1

Document 1: Ichiro Shoji et al., "(100)-cut no YAG
kesshou ni yoru netsu fukukussetsu yuuki
depolarization no teigen," Dai-62-kai ouyou
butsuri gakkai gakujutsu kouenkai yokoushuu,
1 September 2001, Vol. 3, page 799

Document 1 indicates that depolarization can be reduced in YAG crystals by selecting a plane other than the (111) plane as the direction of propagation of light.

A person skilled in the art could easily conceive of selecting the (110) plane as a plane other than the (111) plane, and thus, the invention described in claim one does not involve an inventive step.

CLAIMS

- 1. (Amended) A solid-state laser wherein the direction of beam propagation is selected to (110)-direction of a crystal belonging to equi-axis crystal system to reduce birefringence effects based on photoelastic effects due to centrosymmetrically induced stress.
 - 2. (Deleted)
 - 3. (Deleted)